

Contents

(Abstracted/indexed in: *Chemical Abstracts: Current Contents; Physical, Chemical & Earth Sciences; INSPEC: PASCAL/CNRS*)

Vol. 96 Nos. 1/2

Review

Poly(ethylene oxide)–poly(propylene oxide)–poly(ethylene oxide) block copolymer surfactants in aqueous solutions and at interfaces: thermodynamics, structure, dynamics and modeling P. Alexandridis, and T. Alan Hatton (Cambridge, MA, USA)	1
Ethyl acetate modified AOT water-in-oil microemulsion for the α -chymotrypsin catalyzed synthesis of a model dipeptide derivate X. Jorba, P. Clapes, J.L. Torres, G. Valencia and J. Mata-Alvarez (Barcelona, Spain)	47
Graft copolymers as stabilizers for oil-in-water emulsions. Part 1. Synthesis of the copolymers and their behaviour as monolayers spread at the air–water and oil–water interfaces A.E. Cárdenas-Valera, A.I. Bailey and A. Doroszkowski (London, UK)	53
Determination of a coalescence parameter related to the stability of emulsions with polymeric surfactants E. Nakache, P.-Y. Longaive and S. Aiello (Caen, France)	69
Configuration of R–O–(CH ₂ –CH ₂ –O) _n –H surfactant molecules in aqueous solution F. Gourram-Badri and B. Siffert (Mulhouse, France)	77
Drop size and concentration profile determination in petroleum emulsion separation S.L. Mason, K. May and S. Hartland (Zürich, Switzerland)	85
Mechanism of formation of humus coatings on mineral surfaces 1. Evidence for multidentate binding of organic acids from compost leachate on alumina R.L. Wershaw and J.A. Leenheer (Denver, CO, USA), R.P. Sperline and Y. Song (Tucson, AZ, USA), L.A. Noll (Bartlesville, OK, USA), R.L. Melvin and G.P. Rigatti (Hartford, CT, USA)	93
Determination of carbon porosity from low-temperature nitrogen adsorption data. A comparison of the most frequently used methods G. Rychlicki, A.P. Terzyk and J.P. Łukaszewicz (Toruń, Poland)	105
Phase separation of the aqueous solution and the surface activity of oxyethylenated cationic–anionic surfactants X.-G. Li and F.-M. Liu (Chongqing, People's Republic of China)	113
Optimization of the heterocoagulation process of polymer colloids with different particle size J. A. Maroto and F.J. de las Nieves (Granada, Spain)	121
The influence of β -lactoglobulin on the growth and dissolution kinetics of hydroxyapatite K.D. Daskalakis, T.A. Fuierer, J. Tan and G.H. Nancollas (Buffalo, NY, USA)	135
The role of micellar structures in shear-flocculation Part 1: Flocculation of quartz with alkylamine surfactants D.D. Murphy, D.R. Spears and M.G. Bakker (Tuscaloosa, AL, USA)	143
Effect of multivalent cations on the adhesion rate of cellular surfaces bearing ionizable groups Y.-I. Chang (Taichung, Taiwan) and J.-P. Hsu (Taipei, Taiwan)	155
Conformation studies of aerosol-OT in reverse micelles using phase sensitive double quantum COSY NMR spectroscopy M. Varshney (New Delhi, India) and A. Maitra (Delhi, India)	165
Amphiphiles at oil–water interfaces: simulation study of their tension-reducing properties K.J. Klopfer and T.K. Vanderlick (Philadelphia, PA, USA)	171

Kinetic and calorimetric investigations on micelle formation of block copolymers of the poloxamer type E. Hecht and H. Hoffmann (Bayreuth, Germany)	181
The role of a single end group in poly(ethylene oxide) adsorption on colloidal and film polystyrene: complimentary sedimentation and total internal reflectance fluorescence studies M.S. Kelly and M.M. Santore (Bethlehem, PA, USA)	199
<i>Announcements</i>	217
<i>Vol. 96 No. 3</i>	
Adsorption of some quaternary oniom salts on silica gel A.C. Ghosh, K. Satyanarayana, R.C. Srivastava and N.N. Dutta (Assam, India)	219
Characterization and demulsification of solids-stabilized oil-in-water emulsions. Part 1. Partitioning of clay particles and preparation of emulsions N. Yan and J.H. Masliyah (Edmonton, Alta., Canada)	229
Characterization and demulsification of solids-stabilized oil-in-water emulsions. Part 2. Demulsification by the addition of fresh oil N. Yan and J.H. Masliyah (Edmonton, Alta., Canda)	243
Structural and acidic properties of copper–silica catalysts 1. A differential scanning calorimetry and Fourier-transform infrared/photoacoustic study M. Mokhtar Mohamed (Cairo, Egypt) and E.F. Vansant (Wilrijk, Belgium)	253
Water-in-crude oil emulsions from the Norwegian continental shelf. 10. Ageing of the interfacially active components and the influence on the emulsion stability J. Sjöblom, L. Mingyuan and A.A. Christy (Bergen, Norway) and H.P. Rønningsen (Stavanger, Norway)	261
Reassignment of ¹³ C NMR peaks of SDS micellar system by HMQC-NMR spectroscopy M. Varshney (New Delhi, India)	273
Selective spherical agglomeration of fine salt-type mineral particles in aqueous solution Z. Sadowski (Wrocław, Poland)	277
Dissolution kinetics and solubility of calcium carbonate monohydrate D. Kralj and Lj. Brečević (Zagreb, Croatia)	287
Use of pendent drop technique as a film balance at liquid/liquid interfaces J. Li, R. Miller, R. Wüstneck and H. Möhwald (Berlin, Germany) and A.W. Neumann (Toronto, Ont., Canada)	295
<i>Brief note</i>	
Zeta potential of phosphors M.J. Shane and J.B. Talbot (La Jolla, CA, USA), E. Sluzky (Carlsbad, CA, USA) and K.R. Hesse (Escondido, CA, USA)	301
<i>Announcements</i>	307
<i>Author Index</i>	313
<i>Subject Index</i>	314
<i>Contents of Volume</i>	316